	Application No.	Applicant(s)	
	10/667,859	KIMBERLEY ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Ling-Siu Choi	1713	
The MAILING DATE of this communication appea All claims being allowable, PROSECUTION ON THE MERITS IS (0 herewith (or previously mailed), a Notice of Allowance (PTOL-85) o NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG of the Office or upon petition by the applicant. See 37 CFR 1.313 a	OR REMAINS) CLOSED in this ap r other appropriate communication (HTS. This application is subject to	plication. If not included will be mailed in due co	urse. THIS
1. \square This communication is responsive to <u>05/11/2006</u> .			•
2. ☑ The allowed claim(s) is/are <u>25-28 and 31-33</u> .			
 Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 			
1. Certified copies of the priority documents have b			
2. 🗵 Certified copies of the priority documents have t			
3. Copies of the certified copies of the priority docu	iments have been received in this	national stage application	n from the
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	NT of this application.		
 A SUBSTITUTE OATH OR DECLARATION must be submitt INFORMAL PATENT APPLICATION (PTO-152) which gives 			TICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.		
(a) Including changes required by the Notice of Draftsperson	n's Patent Drawing Review (PTO-	948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's A Paper No./Mail Date	Amendment / Comment or in the C	Office action of	
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the			ick) of
 DEPOSIT OF and/or INFORMATION about the deposi attached Examiner's comment regarding REQUIREMENT FO 	t of BIOLOGICAL MATERIAL r OR THE DEPOSIT OF BIOLOGIC	must be submitted. Not AL MATERIAL.	e the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Dilation of Informal D	National Americantics (DTO 4	50)
2. ☐ Notice of References Cited (P10-892)	 5. ☐ Notice of Informal P 6. ☐ Interview Summary 		52)
3. M Information Disclosure Statements (PTO-1449 or PTO/SB/08)	Paper No./Mail Dat	te	
Paper No./Mail Date			
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. X Examiner's Stateme	ent of Reasons for Allowa	ince
	9.		

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DETAILED ACTION

1. This Office Action is in response to the Reply to Office Action filed May 11, 2006. Claims 1-24, 29-30, and 34-39 were canceled and claims 25-28 and 31-33 are now pending, which are drawn to a copolymer of ethylene and a further 1-olefin.

Examiner's Amendment

- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CAR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 3. The application has been amended as follows:

Page 1, line 1, change "This application is a divisional of Application No. 09/659,589, filed September 11, 2000 which is a continuation" to --This application is a divisional of Application No. 09/659,589, filed September 11, 2000, now US Patent No. 6,657,026, which is a continuation--.

Allowable Subject Matter

4. Claims 25-28 and 31-33 are allowed.

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5. The following is an examiner's statement of reasons for allowance:

The present claims are allowable over the closest reference: Bennett (US 5,955,555) and Yasuhiko et al. (JP 10-007712).

copolymer of ethylene and 1-olefin			
degree of short chain branching per thousand carbons (SCB)	2.0-10		
modulus in MPa (M) & SCB(B)	$M = k - 62.5B$ with $k \ge 820$		
	[M + 62.5B ≥ 820]		

(Summary of claim 25)

Bennett discloses polyethylene obtained in the presence of a catalyst system comprising iron (or cobalt) complex of 2,6-diacylpyridinebis(imine) (claim 1). It is noted that the polyethylene disclosed by Bennett is a homopolymer of ethylene (abstract; all Examples; all claims), whereas the present invention is drawn to a copolymer of ethylene and 1-olefin with the mole % of the comonomer being 0.4-2.0 (calculated from the SCB). Furthermore, the present invention is drawn to a copolymer which is made in the presence of mixed catalysts. In conclusion, there is no reasonable base to assume that the polymer would possess the claimed properties. Thus, Bennett do not teach or fairly suggest the claimed copolymer which has the specific SCB and modulus.

Yasuhiko et al. disclose a copolymer of ethylene and 1-hexene, obtained in the presence of a transition metal compound and an aluminum compound, wherein the transition metal compound is represented by the formula 3 and the aluminum compound

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claimed SCB and modulus.

is R¹¹₃Al (solution; claims 1-3; [0001]-[0002]). The transition metal is preferable to be Cr although M can be a transition metal other than Cr such as iron and cobalt ([0009]). It is noted that the present invention is drawn to a copolymer of ethylene and 1-olefin, which is made in the presence of mixed catalysts. In conclusion, there is no reasonable base to assume that the resulting copolymer would possess the claimed properties because the use of a different catalyst leads to a polymer having different properties.

Accordingly, Yasuhiko et al. do not teach or fairly suggest the copolymer having the

In light of the above discussion, it is evident as to why the present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reach on 571-272-1114.

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LING-SUI CHOI PRIMARY EXAMINER

Li Lella"

July 21, 2006

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